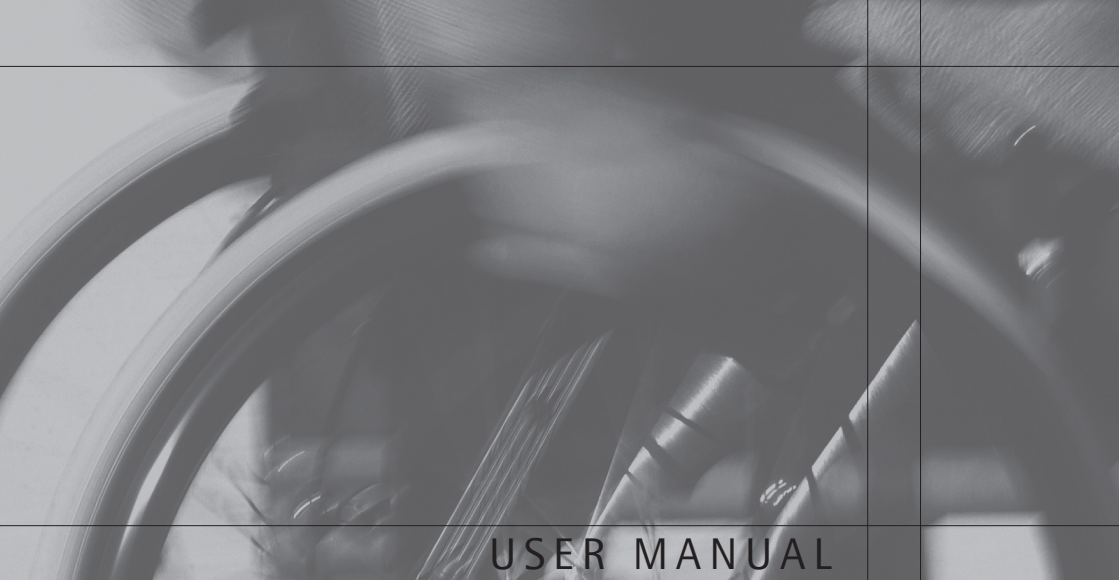




USER MANUAL

Netti I Allround

ALU_REHAB™

Thinking ahead - moving forward



This product conforms to 93/42/EEC for medical products.

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1. INTRODUCTION

Netti I allround is a wheelchair meant for both indoor and outdoor use. It is tested to DIN EN 12183:2009. The tests were carried out by TÜV SÜD Product Service GmbH in Germany.



In Alu Rehab we believe that wheelchairs should be chosen based on a thorough assessment focusing on the needs of the user and demands from the environment. Therefore it is important to know about the possibilities and restrictions of the wheelchair. Netti I allround is a wheelchair designed for users with the need for comfort and relief. The combination between the seating system and the ergonomic solutions in the frame construction, offers many possibilities for adaptation and adjustments.

Max user weight: 150 kg.

⚠ When mounting accessories such as power kit etc, the weight of the accessories must be subtracted from the max user weight.

i Specifications varies between countries.

1.1 Areas of use/indications for Netti I allround

Netti I allround is a multi-function wheelchair for partially or fully immobile persons with physical and/or mental disabilities. These disabilities may have multiple causes. It is possible for the user to change the position, mobilisation or posture correction (stabilisation), wherever the following functional impediments with their multiple possible causes are present:

- limited or lacking mobility
- limited or lacking muscle power
- limited movement range
- lacking or limited trunk and body stability
- hemiplegia
- rheumatic-type disorders
- craniocerebral injuries
- amputations
- other neurological or geriatric disorders.

1.2 Contraindications

Netti I allround is not suited for persons with a strongly enhanced muscular spasticity. In this case we recommend the Netti I HD, which offers a version with reinforced frame and leg rests for this particular need. Ignoring this advice could in unfavourable circumstances lead to the deformation or fracture of metal parts in the area of the back tube, the leg rests or the arm rests.

1.3 Quality and durability

The Netti I allround wheelchair is tested at TÜV SÜD Product Service GmbH in Germany, following the European Standard DIN EN 12183:2009. As manufacturer, Alu Rehab A.S evaluates the test to be equal to 5-6 years of normal use of the chair. The disability of the user as well as the level of maintenance done foremost decides the durability of the wheelchair. Thus, the durability will vary depending on these two factors.

1.4 The environment and waste disposal

Alu Rehab and its suppliers wish to protect the environment.



This means:

- That we avoid using environmentally harmful substances and processes to the greatest extent possible.
- That Alu Rehab's products are ensured a long service life and a high degree of flexibility - to benefit the environment and economy.
- That all packaging can be recycled.
- That the wheelchair was designed to be separated into its component materials - to make recycling easier.

i Contact your local recycling agent to get correct information how to handle in you area.

1.5 Information for re-use

All products from Alu Rehab are designed to give years of maintenance-free service. All products can be adapted for re-use by an authorised dealer. In order to guarantee performance and safety, Alu Rehab recommends the following tests prior to any re-use.

Please examine the following components for function, integrity etc. and replace parts as necessary:

- Wheels (tyre tread)
- Wheelchair frame
- Cushions
- Hubs
- Brake function
- Headset bearings: test for wear lubrication
- Directional stability of wheels
- Bearings

Please also note the content of chapter 9.2 Cleaning and washing

Anti-tip

Correctly fitted, the anti-tip will secure the chair from tipping backwards. We strongly recommend use of the anti-tips.

1.6 About this manual

In order to avoid damages while using the Netti I allround wheelchair, please read this manual carefully before starting to use the chair.



Symbol of forbidden actions.
No warranty can be claimed when-ever these actions are implemented.



Symbol of warning.
Whenever this symbol is used, caution has to be taken.



Symbol for important information.



Symbol for useful tips.



Symbol for tools.

1.7 Vital measures

Netti I allround is a wheelchair designed for both outdoor and indoor use.

 Specifications varies between countries.

Total weight: 22,3 Kg
(500 mm width chair)

Seat width:



350, 380, 400, 430, 450, 500, 550, 600 mm

Seat depth:

(From back rest cushion to front of seat plate)



400, 425, 450, 475, 500 mm

Seat height:

(Measured from floor to top of seat plate using 22" main wheels in upper hole position.*
(Standard Uno cushions measures 8 cm.)



390 mm*

*By changing position of main wheels, it is possible to achieve 32 – 47 cm seat height.)

Backrest height:



500 mm*

* Using back rest extender gives 600 mm

Specification	min.	max.
Overall length with foot support	1030 mm	-
Overall width	740 mm	-
Folded length	690 mm	-
Folded width	630 mm	-
Folded height	450 mm	-
Total mass	22,3 kg	-
Mass heaviest part	2 kg	-
Static stability uphill	0°	18°
Seat plane angle	0°	0°
Effective seat depth	400 mm	500 mm
Effective seat width	420 mm	670 mm
Seat surface height at front	395 mm	-
Backrest angle	83°	107°
Backrest height	480 mm	-
Foot support to seat distance	280 mm	770 mm
Leg to seat surface angle	105°	182°
Arm support to seat distance	185 mm	325 mm
Front location of arm support structure	330 mm	460 mm
Push rim diameter	490 mm	-
Horizontal axle location	25 mm	185 mm

Model width: 50 cm.

Measured without cushions.

2.0 QUICK REFERENCE

The content of this page is a summary of the whole manual. It gives you a brief introduction to the use and care of the Netti I allround wheelchair.

-  The quick reference is not a replacement for the manual, only a reminder/check list.

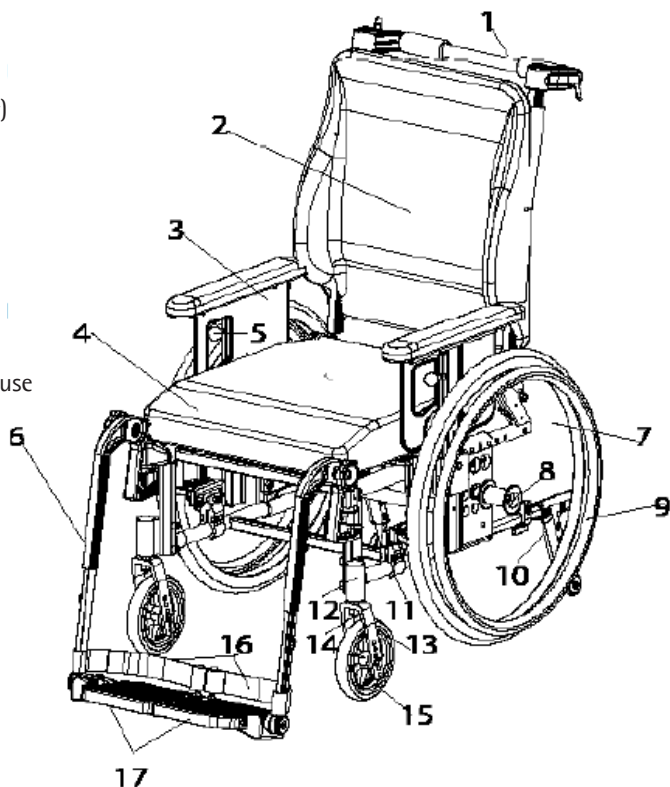
- Unpack the wheelchair (Chapter 6.1)
- Mount the main wheels (Chapter. 6.2)
- Mount the front castors (Chapter. 6.4)
- Mount the arm supports (Chapter. 6.11)
- Lift up the back rest (Chapter 6,7)
- Mount the back rest cushion (Chapter. 6.12)
- Mount the foot supports (Chapter. 6.14)
- Mount accessory. (See chapter 5 for more information. Mounting descriptions will accompany the accessory)

-  For troubleshooting, see chapter 10.
For adjustment see chapter 6.

-  Drive carefully!
-  Be aware that friction against push rims can create a warm surface.
-  Salt water can increase risk of corrosion. Further precautions related to environmental conditions not needed.
-  When the chair is tilted rearwards, the anti tips and brakes should always be in use.
-  Be sure to lock all handles properly.
-  The anti-tips should always be used for the safety of the user.
-  Surface temperature of metal parts in frame structure might increase when exposed to direct sunlight.
-  Never stand on the foot supports due to risk of tipping forwards.
-  Never lift the wheelchair by the foot supports or arm supports.
-  Product configuration may vary between different countries.
-  For visually impaired people, manuals and catalogues can be downloaded at www.alurehab.com
-  If in doubt – contact your dealer!

3. DESCRIPTION

1. Push bow
2. Back rest cushion, Uno
3. Arm support with pad
4. Seat cushion (accessory)
5. Release handle for arm support
6. Universal foot support
7. Main wheel
8. Quick release axle
9. Push rim
10. Anti tip
11. Brake
12. Front castor bearing house
14. Quick release for front fork
15. Front castor
16. Heel strap
17. Foot plate



* Be aware that specifications may vary between countries

❗ If any of these parts are missing, please contact your dealer.

❗ For complete information, please contact your dealer.

4. FEATURES OF NETTI I allround

Standard

Seat

- Adjustable height 32 cm to 48,5 cm with change of wheels
- Adjustable depth of 10 cm

Wheel

- Main wheel: 22"x1" for seat width 35-50cm
24"x1" for seat width 55-60cm
puncture proof with quick release axle
- Push rim: Aluminium
- Front castors: 6" for seat width 35-50cm
7" for seat width 55-60cm
puncture proof with quick release axle

Standard main wheels may vary between countries

Back rest

- Angle: 83°, 97° & 107°
- Height: 50 cm
- The back rest cushion has integrated lumbar support and side support, and it can be adjusted in height

Foot support

- Universal foot support

Arm support

- Height adjustable and removeable
- Depth adjustable pads

Accessories/options

Seat

- Trays & reading stand for trays (See chapter 5)
- Hip belts and 4 point belts (See chapter. 5)

Hjul

- Puncture proof wheels (See chapter 5)
- Pneumatic wheels (See chapter. 5)
- Wheels with drum brake (See chapter 5)
- Wheels with one hand drive (See chapter 5)
- Pneumatic front castors (See chapter 5)
- Spoke protectors (See chapter 5)
- Push rims (See chapter 5)

Back rest

- Back rest extender (See chapter 5)
- Lumbar support and Wedge (See chapter 5)
- Back rest cushions

Foot support

- Angle adjustable foot support (See chapter 5)
- Amputation support (See chapter 5)
- Knee and thigh support (See chapter 5)

Arm support

- Different pads (See chapter 5)
- Hemi arm rest and Hemi cushion (See chapter 5)

Head support

- Different models (See chapter 5)

5. ACCESSORIES

Belts

Several models:
Hip belts with or without upholstery and with plastic lock or car lock. (See chapter 5.1 and 5.2 for mounting)



H-Belt attachment bar

To be mounted onto the push handles. Come in two sizes with telescopic bar. See chapter 5.2



Trays

3 models:
Swingable, lockable and standard "push on" model.



Reading stand



Upholstery for tray

Offers a soft base for the arm resting on the tray.



Half tray

Swingable upholstered half tray. The tray replaces the existing standard armrest.



Wedge

Increases side support.



Lumbar support

Increases lumbar curvature.



Brake extenders

90 mm
120 mm
250 mm



Vital Base Integral

Pelvic stabilizer



Seat cushions

Many to choose from.
Please contact your dealer.



Back rest cushions

Many to choose from.
Please contact your dealer.



Spoke protectors

For 20", 22" and 24".
Black or transparent is optional.



Foot box

Upholstered



Abduction block

The block reduces abduction

Small: 80 mm width
Medium: 120 mm width
Large: 140 mm width



Foot support

Angle adjustable



Universal

Adjustable in fixed positions between 33° to 105° using an adjustment wheel.



Amputation support



Knee/Thigh support

The support reduces adduction



Head supports

Support C Large
Support A Side support
Support B Small



Hygiene cover

Protect the core of the head support



Head cushion

40 x 40 cm cushion with Kospoflex filling and rubber band.



Head cushion Comfort

Cushion with Kospo-flex filling to pull onto head rest



Back rest extender

12 cm extender
To be used together with 60 cm back rest cushion



Arm support pads

Wide: 415 x 80 mm

Long: 445 x 70 mm

Long/Wide:

525 x 60 mm

Short: 333 x 58 mm

Standard:

38 x 58 mm

Arm support bended



Hemi arm support

Offers extra support for the affected arm
Can be set in fixed positions



Hemi cushion

A more accommodating support than the hemi arm support



Comfort pads

To be attached to the skirt guard. Offers a pressure distributing effect. 2.5, 3.5 and 4.5 cm



Main wheels

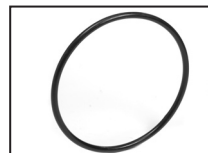
Several models in 12", 16", 20", 22", 24" and 26"



Push rims

Aluminium:

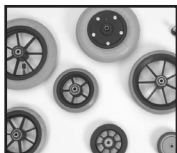
20", 22", 24" and 26"



One hand drive
20", 22", 24", 26"
x 1 3/8", 20", 22"
and 24" x 1". In addition
you must order a tele-
scopic connection bar
for the wheels.



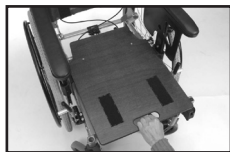
Front castors
Several models
in 3", 4", 5", 6", 7" and 8"



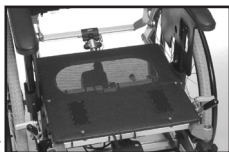
Front forks
Standard w/axle
Long w/axle
Short w/axle
Wide w/axle
Long/Wide w/axle



Sliding seat
The seat can be pulled
out and pushed in
while the user sit in the
seat. This eases trans-
fer and positioning of
the user.



Comfort plate
The plate has a hole in
the rear, which in co-
operation with the seat
cushion increases pelvic
stabilization.



Calf pad hinged
The user doesn't have
to lift the legs when
mounting or dismount-
ing the foot supports.



Foot board with lock
The foot supports can be
swung to the side like
standard foot supports.



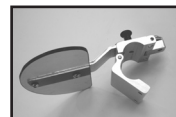
Side support Correction
Meant for correction of bad
postures in the upper trunk.
For optimal function use
together with Flip back rest



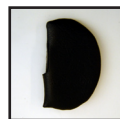
**Pad for side support
Correction**



Side support Stable
Meant for users with de-
creased stability of the
upper trunk. For optimal
function use together
with Stable cushion



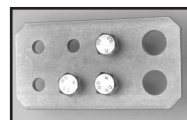
**Pad for side support
Stable**



El components
For tilt, back rest and
foot supports separate
or complete



Frame extender
Increases distance
between main wheels
and front castors
Reduces tipping risk.



**Upholstery for calf
support bracket**
Reduces pressure



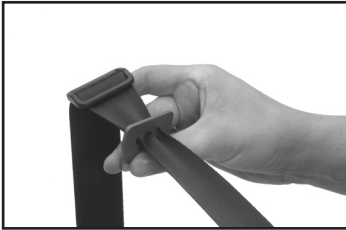
Tool set



5.1 Mounting of hip belt

Picture 1

- Pull the belt thorough the hole in the hip belt bracket.



Picture 1

Picture 2

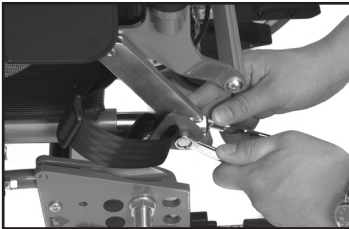
- Thread the belt back through the belt clamp.



Picture 2

Picture 3

- Fix the hip belt bracket to the rearmost hole in the back hinge, using the enclosed screws and nuts.



Picture 3

 2 pcs 13 mm open-end spanner

5.2 Mounting of H-Belt bar

Picture 1

- Remove the push handles, and pull the H-belt attachment bar onto the push handles from the lower end.



Picture 1

Picture 2

- Fix the push handles in correct position and lock firmly. Then fix the bar at the right position/height. The height should be level with the shoulders of the user.



Picture 2

Picture 3

- Thread the belt through the rolls and lock the belt by pulling the belt through the belt clamp. Adjust to the requested length of belt.



Picture 3

5.3 Push handles

Mounting of the push handles

- Mount the push handles in the hole in every side in the push bow
- Mount the safety screw and lock nut in the hole in the bottom of the push handles



Adjustment of push handles:

- Release the lever on the side and lift the handle all the way up.
- Turn the handles into required position.
- Adjust height.
- Lock the handle in required position by tightening the lever.

⚠ Be sure to lock the handle properly.

⚠ Check that the safety screw is properly tightened.

i To remove the handles, the safety screw at the bottom also has to be removed

5.4 Seat cushion

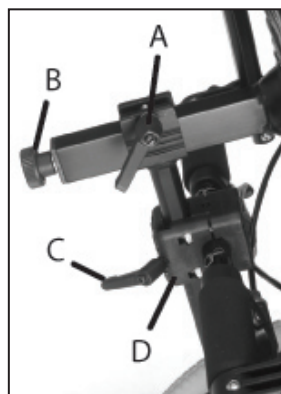
The seat cushion is fixed to the seating using the velcro.



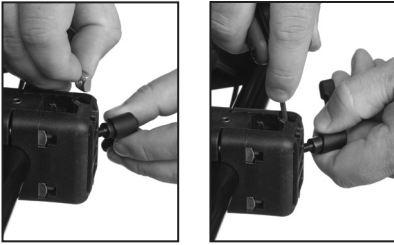
👍 It is imperative to correctly set-up the cushion in order to ensure good seating comfort

👍 The cushion covers are washable and thereby reuseable. Follow the instruction on the back of the cushion for correct maintenance and washing of the cushion.

5.5 Head support



- A - Lever for depth adjustment
- B - Wheel for angle adjustment
- C - Lever for height adjustment
- D - Head support bracket



- Place the squared nut in the trace of the head support bracket as shown above.
- Place the head support in the head support bracket.
- The height and the depth of the head support is set to the required positions and tightened.



- The head support bracket is fixed by tightening the four screws two by two diagonally so the bracket is fixed with the same strength divided on the four screws.

Adjusting the head support in depth:

- Release the locking lever on top of the vertical bar (A).
- Adjust the head support and fix it in required position.

Adjusting the head support in height:

- Release the locking lever on the head support adapter (C).
- Adjust the head support and fix it in required position.

Adjusting the head support in angle:

- Release the adjustment wheel at the rear of the horizontal bar (B).
- Adjust the head support and fix it in required position.

Adjusting the head support sideways:

- The head support adapter can be moved both to the right and left, giving the possibility to accomodate special needs for head support.
- Untighten the four screws holding the adapter together.
- Move the adapter to the required position and fix the adapter by tightening the screws diagonally.

⚠ Remember to release the levers when adjusting the head support

i If the head support stand does not fit the bracket perfectly the bracket is probably fixed too tight or unevenly.

i After fitting the head support fix it properly by tightening the little set screw in the centre on top of the head support bracket using an Allen key.

👍 If the head support seems to short in height, it can be turned 180° by releasing the adjustment wheel at the rear of the horizontal bar (B).

6. ASSEMBLING AND ADJUSTING



6.1 Unpacking (See chpt. 5 & 6)

1. Unpack all the parts, and check that everything is there according to the packing list.
2. Mount main wheels and front castors.
3. Mount back rest, arm supports, cushions and foot supports.
4. Mount accessories.

Weight of components (45 cm width chair):

Main wheels: 1,9 kg each

Front castors: 0,8 kg each

Foot support angle adj.: 2 kg each

Uno|Back: 1,25 kg

VB Sit: 1 kg

Head support A: 1 kg

Head support C: 0,9 kg

Necessary tools are described under each chapter. Accessories described in chapter 5 is a presentation of options, and will be delivered with separate mounting descriptions.

6.2 Main wheels

To mount the main wheel remove the quick release bolt from the hub bushing, lead it through the centre of the main wheel and into the hub bushing while pressing the knob in center.



⚠ To check that the main wheel is properly attached to the hub, remove the finger from the central knob and pull the main wheel.

⚠ If the main wheel doesn't lock, don't use the wheelchair but contact your dealer.

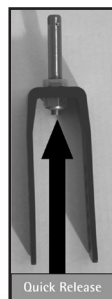
⚠ Sand and sea water (salt used for gritting in the winter) can damage the bearings of the main wheels. Clean the wheelchair thoroughly after exposure.

6.3 Front fork

Front forks come as standard with quick release axles. The front fork is easily removed by pressing the knob in centre above the wheel.



Check angle of castor bearing house. (See chapter 6.5).



6.4 Front castors

To take of

- Press the release button under the front fork.



To mount

- Lead the quick release axle into the bearing house. Pull the fork slightly to ensure that the fork is fully locked.



- ⚠ Sand and sea water (salt used for gritting in the winter) can damage the bearings of the front castors. Clean the wheelchair thoroughly after exposure.

6.5 Seat height at the front

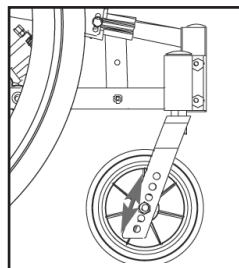
The seat height depends on:

- Size of front castors.
- Size of front fork.
- Check the angle of the castor bearing house.

In chapter 5 there is several models of both front castors and front forks to choose between. For to change the front castors or front fork - unfix the wheel and place it in the required position in the front fork.

Angle of bearing house

Correctly adjusted angle of the front fork is important to achieve proper manoeuvring qualities of the wheelchair. Unfix the two screws on the inside of the frame enough to adjust the the eccentric nuts. Angle the bearing house, so that it is 90° relative to the ground, tighten the screws with 16 Nm



- ✖ 1 pc 5 mm Allen key

- ⚠ The bearing house can not be adjusted in height.

- ⚠ Check the position of the anti tip.

6.6 Seat height at the rear

The seat height at the rear depends on:

- Size of main wheel.
- Position of main wheel.

Main wheel

Unfix the hub bushing, including washer and nut, and mount it in required position in the main wheel bracket.

- ✖ 2 pcs 24 mm open-end spanner

- ⚠ Make sure that the nut on inside of frame totally wreathes the wheel bushing.

⚠ Readjust the brakes. (See chapter 6.15).

⚠ Readjust the angle of the bearing house. (See chapter 6.5)

6.7 Back rest

The back rest can easily be folded down by pressing the release stay to allow to lay the back rest down onto the seat. Ensure the back rest click back into position when raising it again.



The back rest angle can be changed in 3 different positions. Standard back rest angle is 97°. Alternative angles are: 107°, 97° & 83°

To change the angle of the back rest

- Loosen the screw shown in the picture
- Place the screw in the desired position
- Tighten the screw



To ensure that the screws are properly locked in position the edge of the screw should be parallel to the back rest hinge. See picture



6.8 Adjusting seat depth at the rear

The seat depth can be adjusted 10 cm in the rear and 10 cm in front.

Adjusting seat depth at the rear:

- The back rest hinge has 5 holes with 2,5 cm distance between
- The seat depth can be adjusted from 40 - 50 cm. (Measured from front of seat plate to back rest tube without back rest cushion)
- Pull out the locking bolt for the back rest and place the back rest forward in the seat
- Remove the screws holding the back rest hinge, and set the back rest to the required position. Do both side at the same time.
- Place the screws back and fix them.



When using the comfort seat plate, it is recommended to change seat plate when changing seat depth. The seat plate comes in depth: 40 cm, 43 cm and 46 cm.

👍 By using the adjustment strap in the rear you can gain a few cm on the depth

⚠️ When adjusting the seat depth at the rear the screw in the back rest hinge must be tightened with 14 Nm.

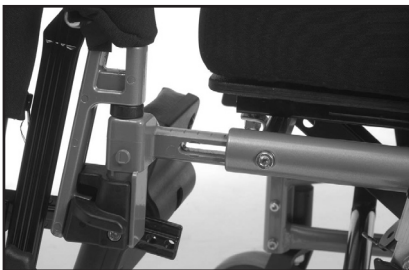
🔧 6 mm Allen key
13 mm open-end spanner

⚠️ When changing seat depth, you also change the tipping point of the chair. This can be prevented by changing the position of the main wheel in the main wheel bracket. (See chapter 6.6).

6.9 Adjusting seat depth at the front

It is possible to adjust the seat depth up to 10 cm at the front. Do the following:

- Unfix the screw holding the pull out piece for the foot support
- Set the pull out piece to the required position
- Fix the screws, tighten them with 25 Nm



🔧 6mm Allen key

👍 By setting the pull out pieces to different positions, it is possible to compensate for a rotated pelvis or different length of thighs.

6.10 Anti tip

- Adjust the anti tip so that it doesn't stick outside the radius of the wheel.
- Pull the anti tip out / rearwards from chassis.
- Turn it down 180°.
- Lock it in position by moving forwards with spring tension.



❗ The anti tips are delivered adjusted according to ordered main wheel size in standard position. If other adjustments are carried out, anti-tips have to be adjusted accordingly.

Adjusting anti tip

The anti tips must be adjusted whenever position or dimension of main wheels is changed.

Correctly adjusted anti tips should be positioned just on the inside of the radius of main wheel. Anti tips are adjusted as follows:

- Unfix the locking clamp on the anti tip bar using an Allen key.
- Pull or push the bar to required position
- Fix the locking clamp.
- Do the same procedure on the opposite side.

 6 mm Allen key

 Check that both anti tips have the same length. The gap between the anti tip wheels and the ground must be max 3 cm

 If the anti tip is positioned on the outside of the main wheel radius, it will interfere with curbs and stairs

 The anti tip should always be used for the safety of the user.

6.11 Adjusting arm supports

- Turn the release handle to the side and hold.
- Adjust the armrest to the required height and release the handle. Lift or lower the armrest slightly until it locks.

 The armpad and locking screw are set in the middle position. This can be adjusted to suit the user.



6.12 Back rest cushion

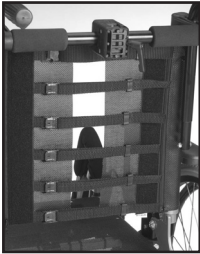
The back rest cushions are fixed and adjusted on the wheelchair using the velcro



 It is imperative to correctly set-up the cushion in order to ensure good seating comfort

 The cushion covers are washable and thereby reuseable. Follow the instruction on the back of the cushion for correct maintenance and washing of the cushion.

6.13 Adjusting the velcro back



- Loosen the straps and place the back rest cushion so that the user gets room for the bottom and the integrated lumbar support in correct position.
- Tighten the straps so that they follow the curvature of the spine and gives a little extra support at the top of the sacrum

6.14 Foot supports



Universal foot support

The Universal foot support is fixed with the possibility of angle adjustment. It is swingable and removeable. The foot plates are foldable and can be angled in fixed positions

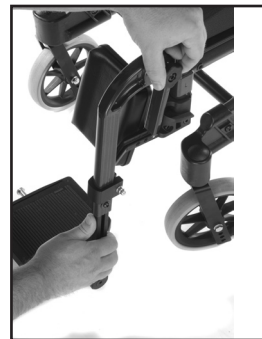
Mounting of foot support

- Mount the foot support by holding onto the bar bending down towards the foot plate. Hold it in an angle of app. 20° to the side frame. Put it into the black plastic lock attached to the extracable adjustment bar. Swing it in and push down.



Adjusting the angle of the foot support

- The angle of the foot support can be adjusted using the star wheel in center of the hinge point.
- Loosening this star wheel enables you to adjust the foot support to the required angle
- Fix the angle by tightening the star screw.



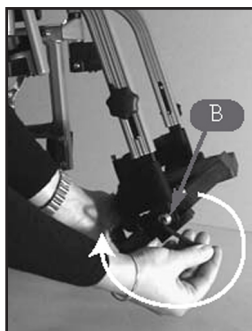
Adjusting the length of the foot support

- Untighten the screw (A) to make the adjustment tube move.
- Adjust the foot support in required position and fix the screw properly.



Adjusting the angle of the foot plate

- The foot plates can be adjusted in angle
- Untighten the screw (B) and adjust the foot plate to the required angle. Fix the screw properly (III. 6.14.1.).



III. 6.14.1



5 mm Allen key



While making the adjustment there must be no load on the foot plates.



For outdoor use, there should be a clearance of 4 - 5 cm between the foot plate and the ground

Removing the foot support

- Take the foot support off by pulling it up and swinging it out (III. 6.14.2)



III. 6.14.2



Never stand on the foot supports!



Never lift the wheelchairs by the foot supports.

6.15 Adjusting the brakes

- The brakes are freely adjustable along the frame tube.
- To activate the brake, push the handle forward (III. 6.15.1)



III. 6.15.1

- To release the brake, pull the handle rearwards (Ill. 6.15.2)



Ill. 6.15.2

- To reposition the brake, loosen the two screws on the inside of the brake clamp (Ill. 6.15.3)
- Adjust the brake position and tighten the screws



Ill. 6.15.3

- For fine adjustment, loosen the upper screw on the inside of the brakes (Ill. 6.15.4)



Ill. 6.15.4



5 mm Allen key



Check that the brakes are correctly adjusted by activating the brakes and be sure that the wheelchair doesn't move.



The brakes are constructed as parking brakes and shall not be used as driving brakes



Be aware of potential squeeze hazard between brake and tyre.

7. TRANSPORT

Netti I allround is tested and approved to crash test ISO 7176-19

7.1 Folding for transport

When wheelchair is unoccupied, fold as described below. Put wheelchair in trunk or back seat. When placed in back seat, secure frame using safety belt.

- Turn the anti tips upwards (Chapt. 6.10)
- Remove the arm supports (Chapt. 6.11)
- Remove the foot supports (Chapt. 6.14)
- Remove the back rest cushion (Chapt. 5.7)
- Lay the back rest down onto the seat (Chapt. 6.7)
- Remove the main wheels (Chapt. 6.2)
- Remove the front castors (Chapt. 6.3)

7.2 Transporting in a car

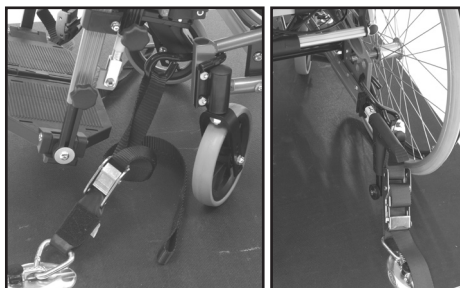
If the head support is mounted correctly it is very stable but does not replace the need for an external neck support mounted in the car.

The chair is marked with stickers in 4 positions, showing where to fix the straps:



Netti I allround has been successfully tested according to the requirement of ISO 7176-19 using a combined wheelchair occupant restraint system W120/DISR developed by Unwin Safety Systems. For further information: www.unwin-safety.com

In front: Use hook or strap attachment.



Mount an "eye-bolt" in one of the holes in the wheel frame bracket. Hook on a hook/carabine hook in the "eye-bolt"



Item number 1 pair eye bolts with bushing: 21074

The angle of the straps should be 0-45°



8. MANOEUVERING

8.1 General techniques

The weight and balance of the chair influences the manoeuvring ability of the wheelchair. The weight, size and sitting position of the user are also influencing factors. Also the position of the wheels will influence the driving ability. The more weight placed over the main wheels, the easier it is to manoeuvre. If heavy weight is placed over the front castors, the chair will be heavy to manoeuvre.

Companion:

If the user is left alone in the wheelchair, always lock the brakes and secure that the anti tips are turned down.

Parking:

Increase the underneath support of the wheelchair by moving the chair about 10 cm backwards making the front castors turn forward.

8.2 Driving techniques

- Step up -

Users, drive up a step forwards:

This technique is only for very experienced users.

- Check that the anti tip is turned up.
- Drive close to the step.
- Balance the wheelchair on the main wheel so that the front castors are lifted high enough to enter the step.
- Make a firm grip on the push rims and move the body forward while pushing.

⚠ Turn the anti tip down.

Companions, drive up a step forwards:

- Check that the anti tip is turned up
- Angle the wheelchair backwards.
- Lift the push handles while pushing the chair onto the step.

⚠ Turn the anti tip down.

Users, drive up a step backwards:

This technique is only useful if the step is very low. It also depends on the clearance between the foot plates and the ground.

- Check that the anti tip is turned up.
- Drive the chair backwards towards the step.
- Make a firm grip on the push rims and move the body forward while pulling.

⚠ Turn the anti tip down.

Companions, drive up a step backwards:

- Check that the anti tip is turned up
- Pull the chair backwards next to the step
- Angle the wheelchair backwards, moving the front castors slightly up in the air.
- Pull the wheelchair up the step and go backwards long enough to put down the front castors on the step.

⚠ Turn the anti tip down.

8.3 Driving techniques

- Step down -

Users, drive down a step forwards:

This technique is only for very experienced users.

- Check that the anti tip is turned up.
- Drive towards the step.
- Make a firm grip on the push rims and push fast forward so that the wheelchair comes down on all four wheels at the same time.

⚠ Turn the anti tip down.

Companions, drive down a step forwards:

- Check that the anti tip is turned up
- Angle the wheelchair backwards, moving the front castors slightly up in the air.
- Drive carefully down the step and angle the wheelchair forward putting the front castors back on the ground.

⚠ Turn the anti tip down.

Users, drive down a step backwards:

This technique is only for very experienced users. This technique should not be used if the height of the step is more than 10 cm.

- Check that the anti tip is turned up.
- Move the wheelchair backwards to the step.
- Move carefully down the step backwards while moving the body forward to keep the balance of the chair.

⚠ Turn the anti tip down.

⚠ Doing this increases the risk of tipping backwards.



Companions, drive down a step backwards:

- Check that the anti tip is turned up.
- Move the wheelchair backwards to the step.
- Drive carefully down the step and move the wheelchair backwards on the main wheel until the front castors have come away from the step.
- Put the front castors down on the ground.

▲ Turn the anti tip down.

8.4 Driving techniques

- Slope -

Important advice for driving down and up hill avoiding the risk of tipping.

▲ Avoid turning the wheelchair in the middle of a slope.

▲ Always drive as straight as possible.

▲ It is better to ask for assistance than taking risks.

Driving uphill:

Move the upper part of the body forwards in order to maintain the balance of the chair.

Driving downhill:

Move the upper part of the body backwards to maintain balance of the chair. Control the speed of the chair by clutching the push rims. Do not use the brakes.

8.5 Driving techniques

- Up stairs -

▲ Always ask for assistance.

▲ Never use escalators, even if assisted by a companion.

With assistance, backwards.

- Check that the anti tip is turned up, and that the push handles are fixed properly.
- Pull the wheelchair backwards to the first step of the stairs.
- Angle the wheelchair backwards on the main wheels.
- Pull the wheelchair slowly up the stair, one step at the time keeping the balance on the main wheel.
- Reaching the top of the stair, pull the wheelchair backwards far enough to put the front castors safely down on the floor.

▲ Turn the anti tip down.



If two companions are present, one person can assist lifting in the front of the frame.



Do not lift the wheelchair holding onto the foot supports.



- ⚠ Do not lift the wheelchair holding onto the arm supports.
- ⓘ The companions should use the strength in their legs carrying the chair, avoiding unnecessary stress on the back.

8.6 Driving techniques - Down stairs -

- ⚠ Never use escalators, even if assisted by a companion.

With assistance, forwards

- Check that the anti tip is turned up and that the push handles are fixed properly.
- Drive the wheelchair forward to the first step of the stair.
- Angle the wheelchair backwards on the main wheels.
- Have a firm grip on the push handles, and keep the balance on the main wheel taking one step at the time
- Reaching the bottom of the stair, put the front castors safely down on the floor.

- ⚠ turn the anti tip down.

- 👍 If two companions are present, one person can assist lifting in the front of the frame.

- ⚠ Do not lift the wheelchair holding onto the foot supports.

- ⚠ Do not lift the wheelchair holding onto the armrests.

8.7 Transfer

Techniques for transferring to/from the wheelchair should be practiced well with the persons involved. Here, we give some important advices for preparation of the chair:

With or without companion - sideways.

Before transfer:

- The wheelchair should be placed as close as possible to the destination of the transfer.
- Pull the wheelchair backwards 5-10 cm in order to make the front castors turn forward.
- Lock the brakes.
- Remove foot support and arm support on the side of the transfer.



With or without companion – forwards.

Before transfer:

- The wheelchair should be placed as close as possible to the destination of the transfer.
- Pull the wheelchair backwards 5-10 cm in order to make the front castors turn forward.
- Lock the brakes.

Using a lift:

Before transfer to chair:

- Remove the foot supports
- Open the back rest angle slightly
- Replace the components when transfer is finished.



- ⚠ **Never stand on the foot plates without making sure that they are touching the ground due to the risk of tipping the chair forwards.**

8.8 Point of balance

Adjust the point of balance by changing the position of the main wheel in the main wheel bracket.

- Move the main wheel hub and the main wheel. (Chapt. 6.6)
- Adjust the brakes. (Chapt. 6.15)



2 pcs 24 mm open-end spanner



5 mm Allen key

When the main wheels are moved forward, it will be easier to manoeuvre the wheelchair, but the risk of tipping backwards increases.



The point of balance can also be changed by adjusting the seat angle and/or angle of back rest.



It is recommended to use the anti tip.



Check that the main wheel and quick release are locked properly. (Chapt 6.2)

8.9 Lifting the wheelchair

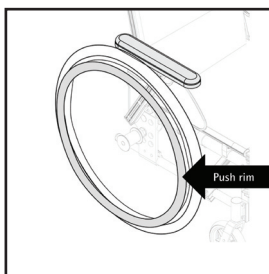


- The wheelchair should be lifted in the frame, push bar and push handles only. It is marked with the above symbol where it should be lifted.
- ⚠ **Never lift the wheelchair by the foot supports or arm supports.**

8.10 Push rim

Netti I allround is delivered with aluminium push rims as standard. The material and distance to the main wheel influences the ability of the user to grip. Contact your dealer to get information about push rims that fit your chair.

- ⚠ Alternative push rims may give a better grip, but the friction may increase. When using the hands to stop the chair, the risk for burning of the hands increases.



- 👍 A squeezing and trapping hazard of the fingers may occur when passing through narrow passages and if the fingers come between the spokes. To avoid this risk, we recommend spoke protectors as accessory.

- ⓘ If you want/need to change push rims or increase/decrease the distance between the push rims and the wheel, please contact your dealer.

9. MAINTENANCE

9.1 Maintenance instructions

The Netti chairs are built of modules. Alu Rehab carries stock of all parts and is ready to supply these on short notice. Necessary instructions for mounting will follow the parts.

Parts to be handled by user are defined in spare part catalogues that can be downloaded at www.alurehab.com. These parts can, if needed, also be removed and sent to manufacturer/distributor upon request.

Parts related to wheel frame construction must be handled by manufacturer or authorized service facility.

- ⚠ You can order original paint from Alu Rehab to repair scratches and minor damages to the paint: Please contact your dealer to order.
- ⚠ If defects or damages occur, please contact your dealer.
- ⚠ Check/re-adjust screws and nuts at regular intervals.
- ⚠ Sand and sea water (salt used for gritting in the winter) can damage the bearings of the front castors and main wheels. Clean the wheelchair thoroughly after use.
- ℹ We recommend washing the wheelchair in washing chamber at >85 °C.
- ℹ For small damages to the surface, original surface paint can be ordered from the manufacturer.

Frequency	Weekly	Monthly
Check defects/damages E.g. breakage/missing parts	X	
Washing of wheelchair		X
Oiling of bearings*		X
Washing of cushions		X
Check anti tip function		X
Check brake adjustment		X
Check tyre wear		X

* As a rule of thumb, use oil on movable parts and all bearings. Alu Rehab recommends use of ordinary bicycle oil

9.2 Cleaning and washing

1. Remove cushions before washing the wheelchair.
2. Clean cushions and covers according to instructions printed on cushions.

Cushion cleaning procedures

CORE	
Washing	Hand wash 40°C
Disinfection	Virkon S
	Auto clave 105°C
Drying	Squeeze
	Air dry standing edgewise
OUTER COVER	
Washing	Machine wash 60°C
Drying	Tumble dry max 85°C

3. Clean frame using water and a rag.
4. If jet water washing, avoid pointing directly towards gas springs, labels and back cushion.
5. We recommend using soft soap.
6. Wash the wheelchair well using clean water to remove all the soap.
7. Use methylated spirit to remove any dirt left.

10. TROUBLESHOOTING

Symptom	Reason/Action	Reference in manual
The wheelchair is going askew	• The angle of the bearing house might not be 90° • Check that the front castors are fitted in the same height • The main wheel hubs might be incorrectly mounted • One of the brakes might be too tight • The user are sitting very askew in the chair • The user might be stronger on one side than the other	6.5 6.4 6.6 6.15
The wheelchair is heavy to manoeuvre	• The main wheel hubs might be incorrectly mounted • Clean the front castors and forks for dirt • Too much weight over the front castors (Adjust the point of balance by moving the main wheels back)	6.6
The wheelchair is hard to turn	• Control that the front castors are not fixed too hard • Adjust the angle of the bearing house • Heavy weight over the front castors • Adjust the point of balance	6.4 6.5
The front castors are wobbling	• Too much weight over the front castors (Adjust the point of balance by moving the main wheels back). • The front castors are not fixed properly • Check that the front forks are fitted in the same height • The angle of the bearing house might not be 90°	6.4 6.4 6.3 6.5
The main wheels are difficult to take off and put on.	• Clean and grease the quick release • Adjust the length of the hub bushing	6.6
The brakes are not functioning well	• Adjust the brake	6.15
The wheelchair feels "shaky"	• Check screws and adjustment points in general	

- i** Please contact your dealer for information about authorized service facilities that can give support if solution is not reached in this form.
- i** When in need of spare parts, please contact your dealer.
- i** When making changes affecting frame construction, contact dealer / manufacturer for confirmation.

11. TESTS & WARRANTY

11.1 Tests

Netti I allround is tested and has been approved for usage both indoors and outdoors. The chair is CE marked.

Maximum user weight: 150 kg

It is tested by TÜV SÜD Product Service GmbH according to DIN EN 12183: 2009.



Crash tested at Millbrooke Proving Ground, Bedford UK, according to ISO 7176-19

Seating system is tested for fire resistance according to: ISO 7176-16

11.2 Guarantee

Alu Rehab is providing you with a 5-year guarantee on all frame components and on the cross-tube assembly. There is a 2-year guarantee on all other components except batteries. Alu Rehab is not responsible for any damage resulting from inappropriate or unprofessional installation and/or repairs, neglect, wear, from changes in wheelchair assemblies or institutions not approved by Alu Rehab or by use of spare parts delivered or produced by third parties. In such cases, this guarantee shall be considered null and void.

11.3 Claim

- Claim is to be addressed to the sales agent of the wheelchair. Please note that sales documentation has to be filled in and signed correctly in order to document time and place of the purchase of the wheelchair.
- Generally, defects are accepted as reason for claims. The sales agent and Alu Rehab are to decide whether a defect has to be repaired, or the customer is entitled to a reduced prize due to the defect.
- This decision is based on an evaluation of defect. 14 days after receiving a claim, the customer receives a report from the sales agent and/or Alu Rehab are going to handle the defect.
- Claim are to be forwarded as soon as a defect is discovered.

 Normal wear, incorrect use or incorrect handling is not a reason for claims.

 The user is to use, maintain and handle the wheelchair as described in the user manual.

11.4 Spare part guarantee

- Alu Rehab offers a 5-year guarantee (as a minimum) for spare parts. The period of guarantee is defined as beginning at the date, Alu Rehab cancels the production of a specified type of chair.
- During the periode of spare part guarantee, spare parts are delivered within 14 days.
- During the periode of spare part guarantee, Alu Rehab offers a 1 year guarantee for defect spare parts.

11.5 Special adjustment/ adaptations

Special adjustments/adaptations are defined as all adjustments that are not included in this manual. Wheelchairs that are especially adjusted/adapted by the customer can not keep the CE mark given by Alu Rehab A.S Norway. If this is the case, the warranty given by Alu Rehab A.S Norway will not be valid. If any uncertainty about special fitting and adaptations, please contact Alu Rehab A.S.

11.6 Combinations with other products

Combinations of Netti and other products not manufactured by Alu Rehab A.S Generally in these cases, the CE mark of all the products involved will not be valid. However, Alu Rehab A.S has made agreements with some manufacturers about some combinations.

 For further information, please contact your dealer or Alu Rehab A.S Norway directly.

11.7 Service and repair

Information about service and repair services in you area, please contact your local dealer.

 A unique identification number / serial number is to be found on the bottom frame on left side of the chair.

 A spare part catalogue for the wheelchair can be obtained through your local dealer or downloaded at www.alurehab.com

 A refurbishment manual for the wheelchair can be obtained through your local dealer or downloaded at www.alurehab.com

12. MEASUREMENTS & WEIGHTS

Size*	Seat depth Standard**	Back rest height*** (Extender)	Total width	Transport width	Weight
35 cm	40-50 cm	50 (60) cm	59 cm	52 cm	21,3 kg
38 cm	40-50 cm	50 (60) cm	62 cm	55 cm	21,4 kg
40 cm	40-50 cm	50 (60) cm	64 cm	57 cm	21,5 kg
43 cm	40-50 cm	50 (60) cm	67 cm	60 cm	22,0 kg
45 cm	40-50 cm	50 (60) cm	69 cm	62 cm	22,1 kg
50 cm	40-50 cm	50 (60) cm	74 cm	67 cm	22,3 kg
55 cm	40-50 cm	50 (60) cm	79 cm	72 cm	25.2 lg
60 cm	40-50 cm	50 (60) cm	84 cm	77 cm	25,5 kg

* Measured between edges of frame tubes. For distance between skirt guards add 2,5 cm

** Measured from front of seat plate to back rest hinge without cushion. Using standard Uno back rest cushion subtract app. 3 cm.

*** Measured from seat plate to top of back rest velcro

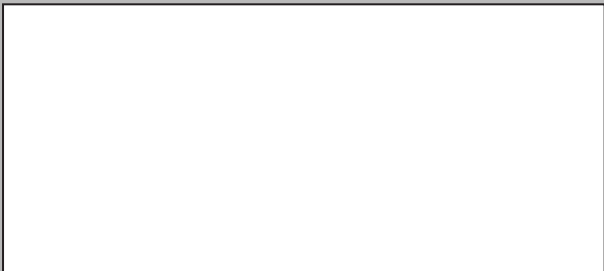
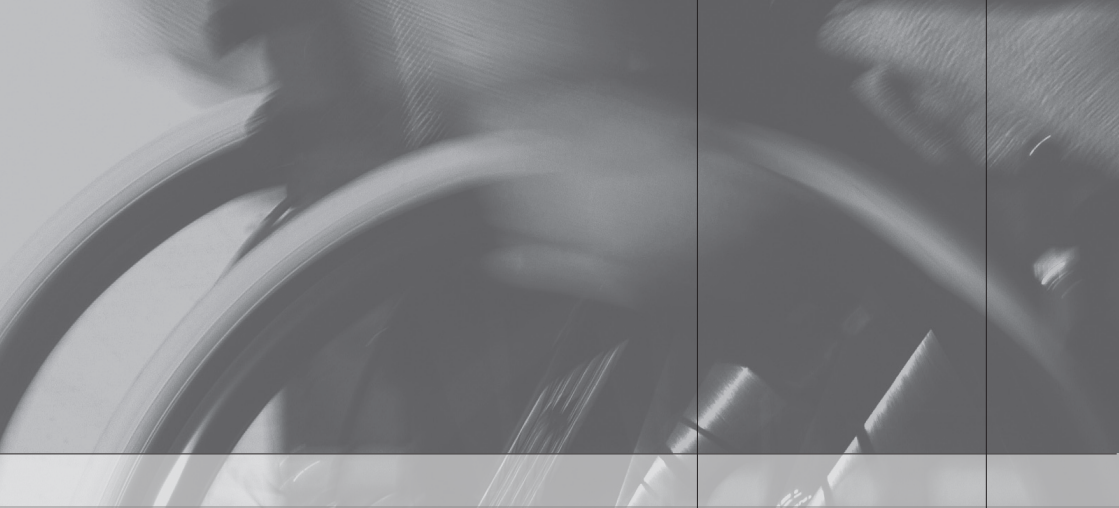
i The weight is including main wheels, front castors, foot support and arm support. No cushions.

i Recommend inflation pressure using air tyres is: 60-65 PSI.

i Max user weight is 150 kg.

⚠ When mounting accessories such as power kit etc the weight of the accessories must be subtracted from max. user weight.

Dealer:	
Serial no.:	
Date supplied:	
Dealer stamp:	



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